

REMARKS

By this amendment, claims 22-24 have been cancelled, and claims 46-57 have been added. Claims 1-21 and 25-45 have been previously cancelled. Accordingly, claims 46-57 are currently pending in the application, of which claims 46 and 52 are independent claims. Applicants respectfully submit that the above amendments do not add new matter to the application and are fully supported by the specification.

In view of the above Amendments and the following Remarks, Applicants respectfully request reconsideration and timely withdrawal of the pending objections and rejections for the reasons discussed below.

Rejections Under 35 U.S.C. §102

Claims 22 and 24 stand rejected under 35 U.S.C. §102(b) as being anticipated by U. S. Patent No. 5,882,827 issued to Nakao (“Nakao”). Applicants respectfully traverses this rejection because, in this response, claims 22 and 24 have been cancelled. Accordingly, Applicants respectfully request withdrawal of the 35 U.S.C. §102(b) rejection of claims 22 and 24.

Claims 22-24 stand rejected under 35 U.S.C. §102(b) as being anticipated by Japanese Patent Publication No. 62-281428 by Sakae (“Sakae”). Applicants respectfully traverses this rejection because, in this response, claims 22 and 24 have been cancelled. Accordingly, Applicants respectfully request withdrawal of the 35 U.S.C. §102(b) rejection of claims 22-24.

Claims 22-24 stand rejected under 35 U.S.C. §102(e) as being anticipated by U. S. Patent No. 6,642,074 issued to Hong (“Hong”). Applicants respectfully traverses this rejection because,

in this response, claims 22-24 have been cancelled. Accordingly, Applicants respectfully request withdrawal of the 35 U.S.C. §102(e) rejection of claims 22-24.

Claims 22-24 stand rejected under 35 U.S.C. §102(e) as being anticipated by U. S. Patent No. 6,255,130 issued to Kim (“Kim”). Applicants respectfully traverses this rejection because, in this response, claims 22-24 have been cancelled. Accordingly, Applicants respectfully request withdrawal of the 35 U.S.C. §102(e) rejection of claims 22-24.

Rejections Under 35 U.S.C. §103

Claim 23 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Nakao in view of U. S. Patent No. 4,865,945 issued to Noguchi (“Noguchi”). Applicants respectfully traverses this rejection because, in this response, claim 23 has been cancelled. Accordingly, Applicants respectfully request withdrawal of the 35 U.S.C. §103(a) rejection of claim 23.

Double Patenting

Claim 22 stands rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 18 of U. S. Patent No. 6,642,074, claim 7 of U. S. Patent No. 6,255,130, claim 13 of U. S. Patent No. 6,531,392, claim 5 of U. S. Patent No. 6,678,018 and claim 4 of U. S. Patent No. 6,524,876.

This rejection is respectfully traversed because, in this response, claim 22 has been cancelled. Accordingly, Applicants respectfully request withdrawal of the provisional double patenting rejection of claim 22.

Other Matters

In this response, claims 46-57 have been newly added.

CONCLUSION

Applicants believe that a full and complete response has been made to the pending Office Action and respectfully submit that all of the stated grounds for rejection have been overcome or rendered moot. Accordingly, Applicants respectfully submit that all pending claims are allowable and that the application is in condition for allowance.

Should the Examiner feel that there are any issues outstanding after consideration of this response, the Examiner is invited to contact the Applicants' undersigned representative at the number below to expedite prosecution.

Prompt and favorable consideration of this Reply is respectfully requested.

Respectfully submitted,



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